

OPMP Pilot Survey
“Questions about Malathion Use in Vegetable Production”

Section 1 - Demographic Questions

1. Regarding your specialization in vegetable production, please select all that apply:

[If the respondent responds to Question 1 by selecting 1a-1f, continue to Question 2; otherwise skip to the end of the survey]

- a) I work for an academic institution (e.g., professor, researcher, Extension Agent) and have been involved with vegetable production
- b) I am a Certified Crop Advisor (CCA) and have been involved with vegetable production
- c) I am a member of the National Alliance of Independent Crop Consultants (NAICC) and have been involved with vegetable production
- d) I am currently an agricultural producer of vegetables
- e) I was previously an agricultural producer of vegetables
- f) Other (please specify): [text input field]
- g) None of the above

2. Approximately how many years have you been involved with vegetable production?

- a) <1 year
- b) 1 - <5 years
- c) 5 - <10 years
- d) 10 or more years

3. Approximately how many acres of vegetable production are you currently involved with?

[Numeric reply, bounded from below by 0]

4. In what state(s) are you currently involved with vegetable production? Choose all that apply.

[List of all states and territories, with check boxes]

Section 2 - Questions about malathion use in vegetable production

1. What vegetable production systems do you use malathion in? Choose all that apply.

- a) Fruiting Vegetables (e.g. tomatoes, peppers, eggplants)
- b) Cucurbit Vegetables (e.g. squash, cucumbers, pumpkins)
- c) Leafy Vegetables (e.g. lettuce, spinach, leafy brassicas)
- d) Other Brassica Vegetables (e.g. broccoli, cauliflower)
- e) Root/Tuber Vegetables (e.g. potatoes, carrots, radishes)
- f) Asparagus
- g) Sweet Corn
- h) Other (Please specify)

				or Thrips		bugs		pests	
Fruiting Vegetables									
Cucurbit Vegetables									
Leafy Vegetables									
Other Brassica Vegetables									
Root/Tuber Vegetables									
Asparagus									
Sweet Corn									
Other									

4. What percentage of your acres is malathion used on as an aerial application or as a ground broadcast application?

- a) aerial: [numeric reply, bounded from below by 0 and above by 100]
- b) ground (broadcast): [numeric reply, bounded from below by 0 and above by 100]
- c) ground (chemigation): [numeric reply, bounded from below by 0 and above by 100]
- d) other: [numeric reply, bounded from below by 0 and above by 100]

5. What alternatives are available for the pests targeted by malathion in vegetables? Choose all that apply:

- a) alternative organophosphates
- b) carbamates
- c) pyrethroids
- d) neonicotinoids
- e) non-insecticide alternative_
- f) other, ___[text input field]

6. Were any of the following pesticide spraying practices or activities used to keep malathion application(s) on-target (i.e., reduce pesticide drift or runoff from treated fields)? Choose all that apply:

- a) riparian buffers to water bodies
- b) upwind swath offsets
- c) drift reducing technology (e.g., low drift nozzles)
- d) field runoff catchments
- e) altering spray application timing for more favorable wind speed/wind direction conditions
- f) other, ___[text input field]

7. Do use patterns for malathion in vegetables vary within the states that you operate in?

[If the respondent responds to Question 5 by selecting a, continue to Question 6; otherwise skip to the end of the survey]

- a) Yes

b) No

8. Where within the states that you operate in is malathion typically used? Choose all that apply:
[Question will display states associated with selection(s) to Section 1, Question 4 in a grid format]

- the North West
- the North East
- the South West
- the South East
- the Center of the Region
- other

9. Are there differences in application rates of malathion to vegetables within the states that you operate in? (If yes, please describe the differences.)

- a) No, there are no differences
- b) Yes, there are differences [text input field]

10. Are there differences in the frequency of applications of malathion to vegetables within the states that you operate in? (If yes, please describe the differences.)

- a) No, there are no differences
- b) Yes, there are differences [text input field]

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